

## M 5.1, 58 km NNE of Nanao, Japan

Origin Time: 2022-06-19 06:08:06 UTC (Sun 15:08:06 local)

Location: 37.5020° N 137.3120° E Depth: 10.0 km

Created: 3 weeks, 5 days after earthquake

### Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

### Estimated Economic Losses

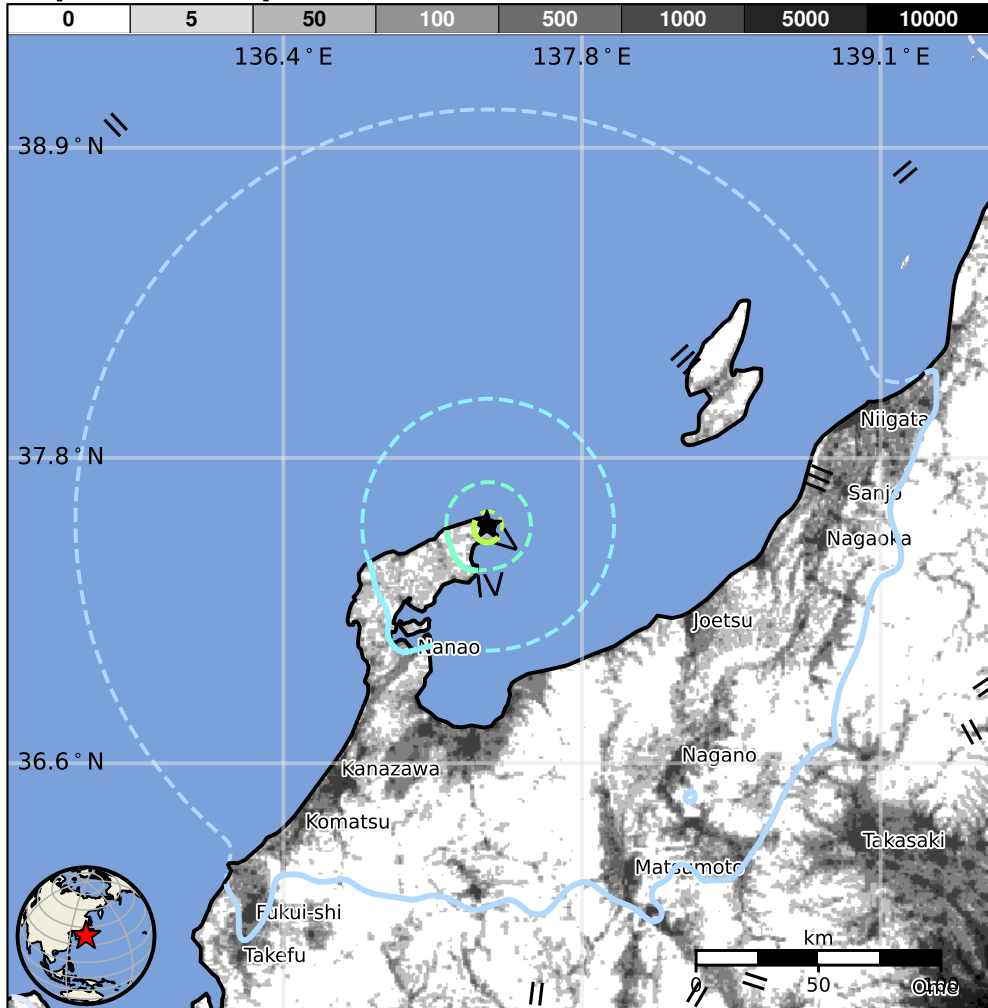


### Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		3k*	16,552k	271k	9k	11k	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

\*Estimated exposure only includes population within the map area.

### Population Exposure



### Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are heavy wood frame and reinforced/confined masonry construction.

### Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1983-03-15	301	5.4	VII(259k)	1
1983-08-08	270	5.6	VII(7k)	1
1995-01-16	385	6.9	IX(1,740k)	6k

Recent earthquakes in this area have caused secondary hazards such as landslides, fires and liquefaction that might have contributed to losses.

### Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Nyuzen	28k
IV	<b>Nanao</b>	<b>45k</b>
IV	Kurobe-shi	43k
IV	Himimachi	55k
IV	Hakui	25k
IV	Nishishinminato	36k
III	Toyama	326k
III	<b>Kanazawa</b>	<b>459k</b>
III	<b>Niigata</b>	<b>505k</b>
III	<b>Nagano</b>	<b>360k</b>
II	Maebashi	283k

PAGER content is automatically generated, and only considers losses due to structural damage.

Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us7000hihq#pager>

bold cities appear on map.

(k = x1000)

Event ID: us7000hihq